Composites Science and Technology **38** (1990) 394–396

CONTENTS OF VOLUME 38

Number 1

Amination of Ultra-high Strength Polyethylene using Ammonia Plasma . . . 1
S. HOLMES & P. SCHWARTZ (USA)

A Model for Stress Corrosion Crack Growth in Glass Reinforced Plastics . . 23
P. J. HOGG (UK)

Strength Loss in Composites from Lateral Contact Loads 43
S. R. SWANSON & H. G. REZAEE (USA)

Effect of Residual Shear Strain on the Cured Shape of Unsymmetric Cross-Ply Thin Laminates 55
W. J. JUN & C. S. HONG (Korea)

Strength of Ceramic Matrix–Metal Fibre Composites 69
V. I. KAZMIN, S. T. MILEIKO & V. V. TVARDOVSKY (USSR)

Poisson's Ratio as a Damage Parameter in the Static Tensile Loading of Simple Crossply Laminates 85
P. A. SMITH & J. R. WOOD (UK)

Announcement 95

Conference Diary 97

Number 2

Accelerated Characterization of Creep Response of an Off-Axis Composite Material 103
SHING-CHUNG YEN & FAY L. WILLIAMSON (USA)

Impact Perforation of Carbon Fibre Reinforced Plastic 119
W. J. CANTWELL & J. MORTON (UK)

Effects of a 90° Ply on Matrix Cracks and Edge Delamination in Composite Laminates 143
W. S. CHAN & A. S. D. WANG (USA)

Composites Science and Technology (**38**) (1990)—© 1990 Elsevier Science Publishers Ltd, England. Printed in Great Britain

Composites Science and Technology **38** (1990) 394–396

CONTENTS OF VOLUME 38

Number 1

Amination of Ultra-high Strength Polyethylene using Ammonia Plasma . . . 1
S. HOLMES & P. SCHWARTZ (USA)

A Model for Stress Corrosion Crack Growth in Glass Reinforced Plastics . . 23
P. J. HOGG (UK)

Strength Loss in Composites from Lateral Contact Loads 43
S. R. SWANSON & H. G. REZAEE (USA)

Effect of Residual Shear Strain on the Cured Shape of Unsymmetric Cross-Ply Thin Laminates 55
W. J. JUN & C. S. HONG (Korea)

Strength of Ceramic Matrix–Metal Fibre Composites 69
V. I. KAZMIN, S. T. MILEIKO & V. V. TVARDOVSKY (USSR)

Poisson's Ratio as a Damage Parameter in the Static Tensile Loading of Simple Crossply Laminates 85
P. A. SMITH & J. R. WOOD (UK)

Announcement 95

Conference Diary 97

Number 2

Accelerated Characterization of Creep Response of an Off-Axis Composite Material 103
SHING-CHUNG YEN & FAY L. WILLIAMSON (USA)

Impact Perforation of Carbon Fibre Reinforced Plastic 119
W. J. CANTWELL & J. MORTON (UK)

Effects of a 90° Ply on Matrix Cracks and Edge Delamination in Composite Laminates 143
W. S. CHAN & A. S. D. WANG (USA)

Composites Science and Technology (**38**) (1990)—© 1990 Elsevier Science Publishers Ltd, England. Printed in Great Britain

Microbuckling Compression Failure of a Radiation-Induced Wood/Polymer Composite 159
FREDDY Y. C. BOEY (Singapore)

Fracture Toughness of Unidirectional Short-Fiber Reinforced Epoxy Composites 175
K. NIKPUR, Y. F. CHEN & J. L. KARDOS (USA)

Book Review 193

Number 3

A Model of Transverse Thermal Conductivity in Unidirectional Fibre-Reinforced Composites 199
S. M. GROVE (UK)

Glass/Nylon-6.6 Composites: Delamination Resistance Testing 211
P. DAVIES (Switzerland) & D. R. MOORE (UK)

An Analytical Model for the Elastic Properties of Fibrous Composites with Anisotropic Constituents 229
WEN-CHAO ZHANG & K. E. EVANS (UK)

Thermo-elastic Model for Multidirectional Coated-Fiber Composites: Traction Formulation. 247
N. J. PAGANO & G. P. TANDON (USA)

Fibre/Matrix Load Transfer in Thermoset and Thermoplastic Composites—Single Fibre Models and Hole Sensitivity of Laminates. 271
P. VAUTEY & J.-P. FAVRE (France)

Book Review 289

Conference Report 291

Conference Diary. 293

Number 4

Analysis of the Iosipescu Shear Test as Applied to Unidirectional Carbon-Fibre Reinforced Composites 299
W. R. BROUGHTON, M. KUMOSA & D. HULL (UK)

A Basic Theory of Reinforcement for Unidirectional Fibrous Composites . . 327
ANDRZEJ P. WILCZYNSKI (Poland)

A Model for the Thermal and Chemorheological Behavior of Thermoset Processing: (II) Unsaturated Polyester Based Composites 339
J. M. KENNY, A. MAFFEZZOLI & L. NICOLAIS (Italy)

Effects of Prepreg Ageing and Post-Cure Hygrothermal Conditioning on the Mechanical Behaviour of Carbon-Fibre/Epoxy Laminates 359
M. AKAY (UK)

Micromechanical Characterization of the Non-linear Viscoelastic Behavior of Resin Matrix Composites 371
JACOB ABOUDI (Israel)

Conference Diary 387

Subject Index 391

Author Index 393